

WHAT WE CLAIM IS:

1. A clamp accessory for an ablation device, comprising:
 - a first jaw member having a partial lumen adapted to receive the ablation device therein;
 - a second jaw member opposed to the first jaw member; and
 - a clamping means for operably attaching the first jaw member to the second jaw member, whereby operation of the clamping means results in closure of the first and second jaw members upon a target tissue.
2. The accessory of claim 1, wherein the first jaw member includes at least one cross member for retaining the ablation device therein.
3. The accessory of claim 1, wherein the first jaw member includes at least one thermally isolating portion, whereby tissue adjacent the first jaw member is protected from undesirable damage during an ablation procedure.
4. The accessory of claim 2, wherein the first jaw member comprises an inner surface adapted to receive the ablation device therein.
5. The accessory of claim 4, wherein the first jaw member further comprises at least one protrusion upon an inner surface of the partial lumen.
6. The accessory of claim 1, further comprising a transmurrality system, whereby the completion of an ablation lesion can be determined.
7. The accessory of claim 6, wherein the transmurrality system comprises at least two electrodes adapted to selectively transmit or receive electrical signals to measure at least one of conduction time, conduction distance, conduction velocity, phase angle, and impedance through at least

a portion of the targeted biological tissue, whereby the transmurality of an ablation lesion is determined.

8. The accessory of claim 7, wherein the partial lumen defines a first and a second top side surface and a first and a second of the at least two electrodes are mounted upon the first and the second top side surface, respectively.

9. The accessory of claim 6, wherein the transmularity system is passive.

10. The accessory of claim 9, wherein the transmularity system comprises a liquid crystal sheet adapted to provide a color change in response when a desired ablation temperature is reached, the liquid crystal sheet mounted to and forming an inner surface of the second jaw.

11. The accessory of claim 10, wherein the liquid crystal sheet is adapted to change color when a temperature from about 48 C to about 52 C is reached.

12. The accessory of claim 11, wherein the liquid crystal sheet is adapted to provide a color gradient corresponding in response to a temperature gradient observed.

13. A method of ablation a target tissue with an ablation device, comprising the steps of:

providing an accessory, comprising:

a first and a second jaw member, the first jaw member having a partial lumen therein adapted to accept the ablation device; and

a clamping means for operably connecting the first and second jaw members;

positioning the ablation device within the partial lumen of the accessory;

positioning the target tissue between the first and second jaw members; and

applying energy to the ablation device to form a first ablation lesion in the target tissue.

14. The method of claim 13, wherein the step of providing an accessory comprises the step of providing a means for determining the transmurality of an ablation lesion.